



M&S Requirements To Support The QDR

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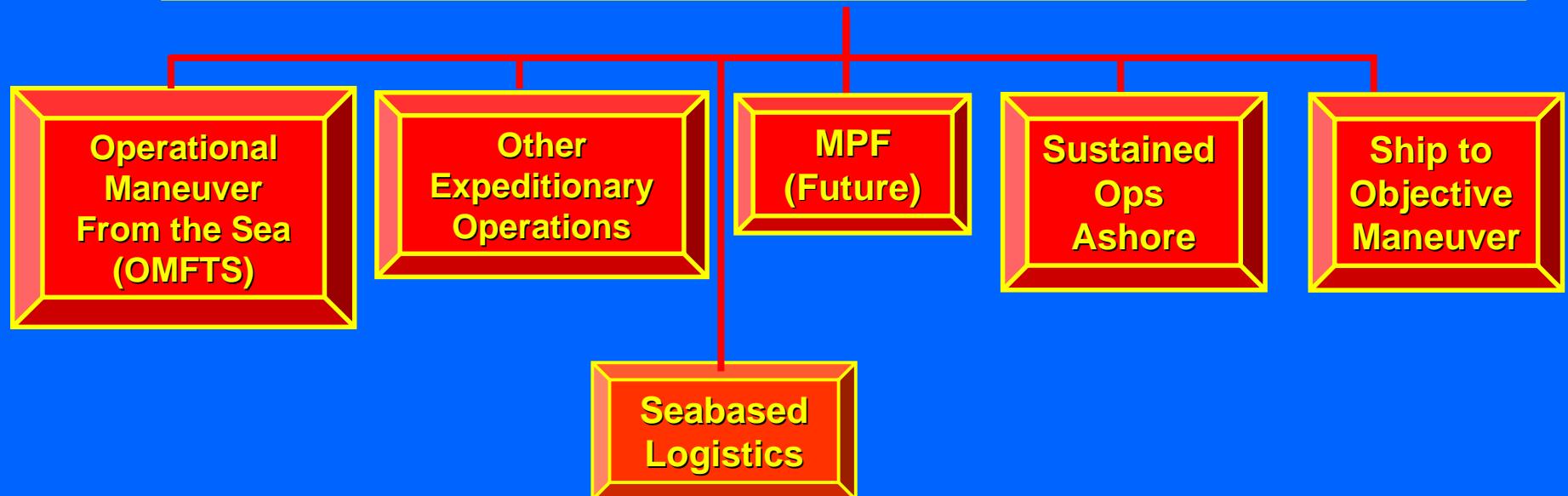
OUTLINE

- The 21st Century Marine Corps
- Issues for the QDR
 - Tools to address those issues
- USMC organization for the QDR



WARFIGHTING CONCEPT

Expeditionary Maneuver Warfare - 21



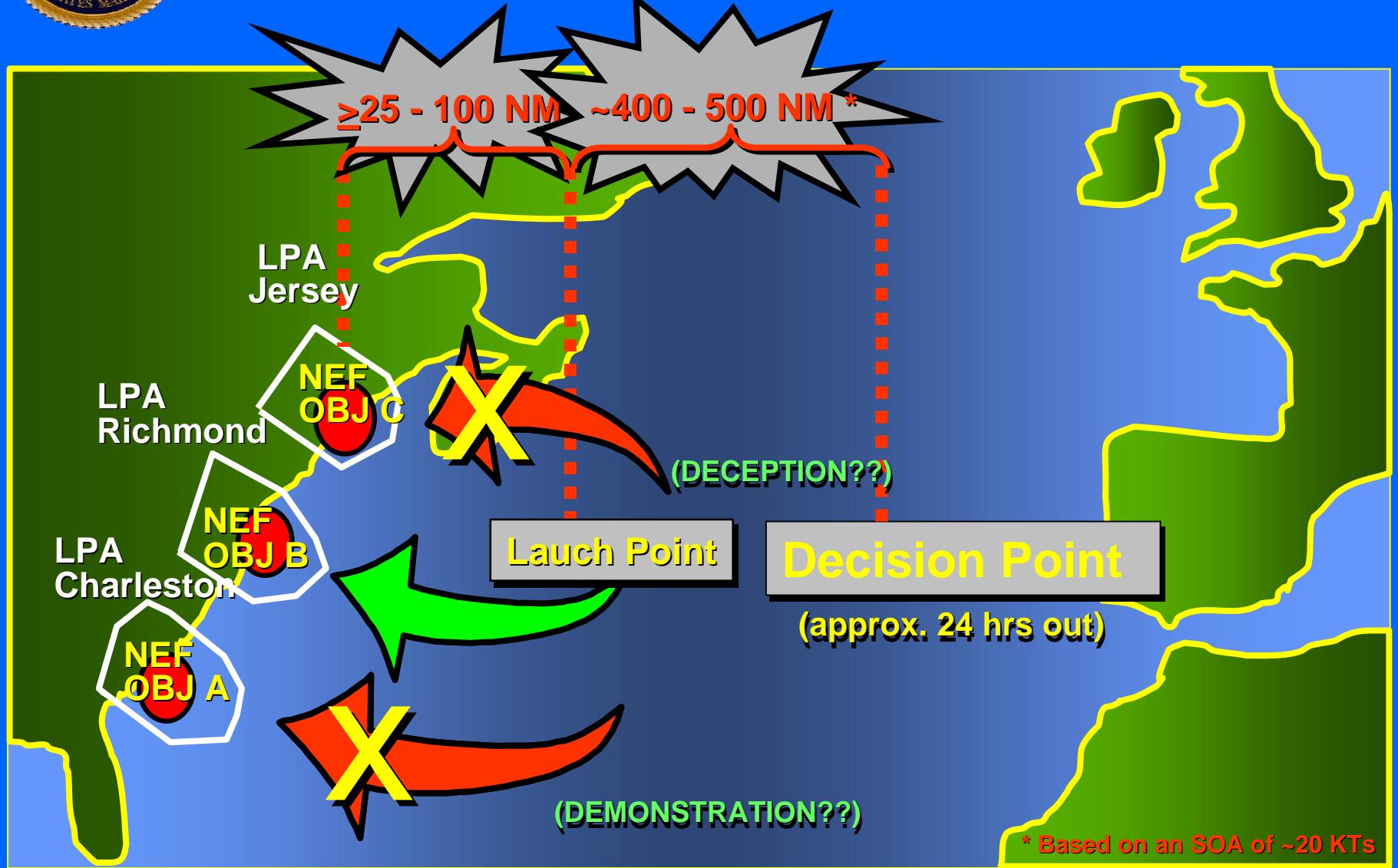


EXPEDITIONARY MANEUVER WARFARE - 21 (EMW-21)

- Marine Corps' capstone operational concept
- Emphasizes maneuver warfare in any clime or place
- Focus is on operational objective
 - No longer views establishing force beachhead as an intermediate objective
- Complements JV 2010 and Navy Operational Concept
- Spans Spectrum of Conflict



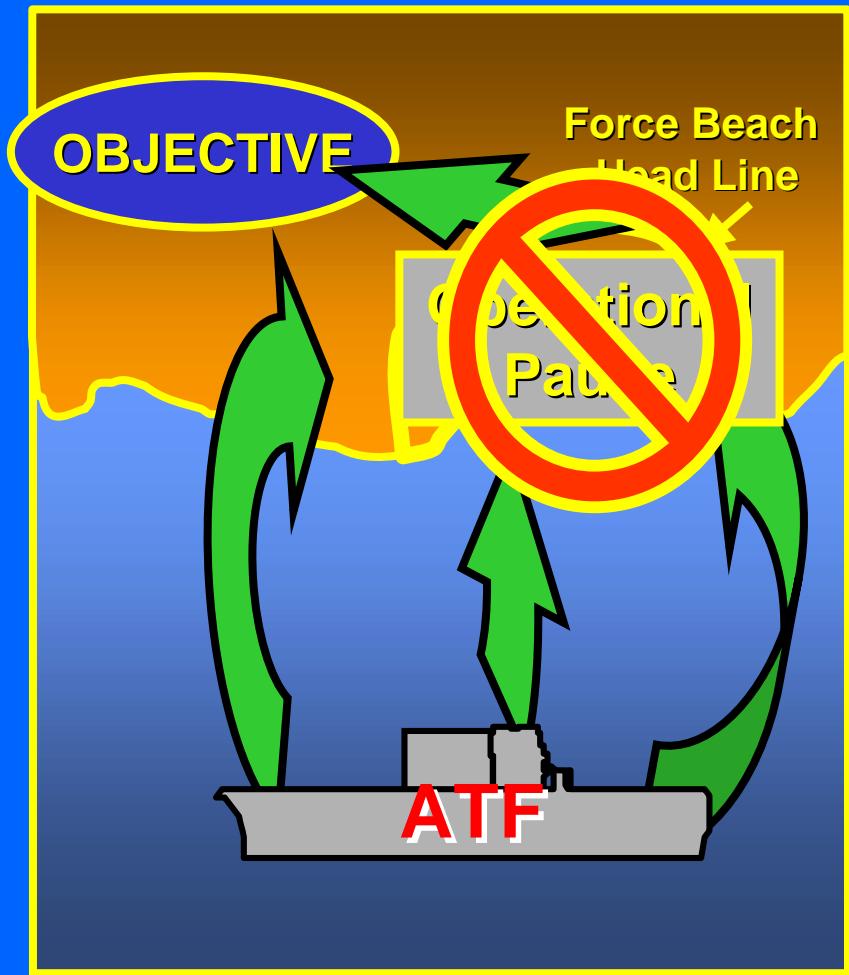
OMFTS: *The Vision*



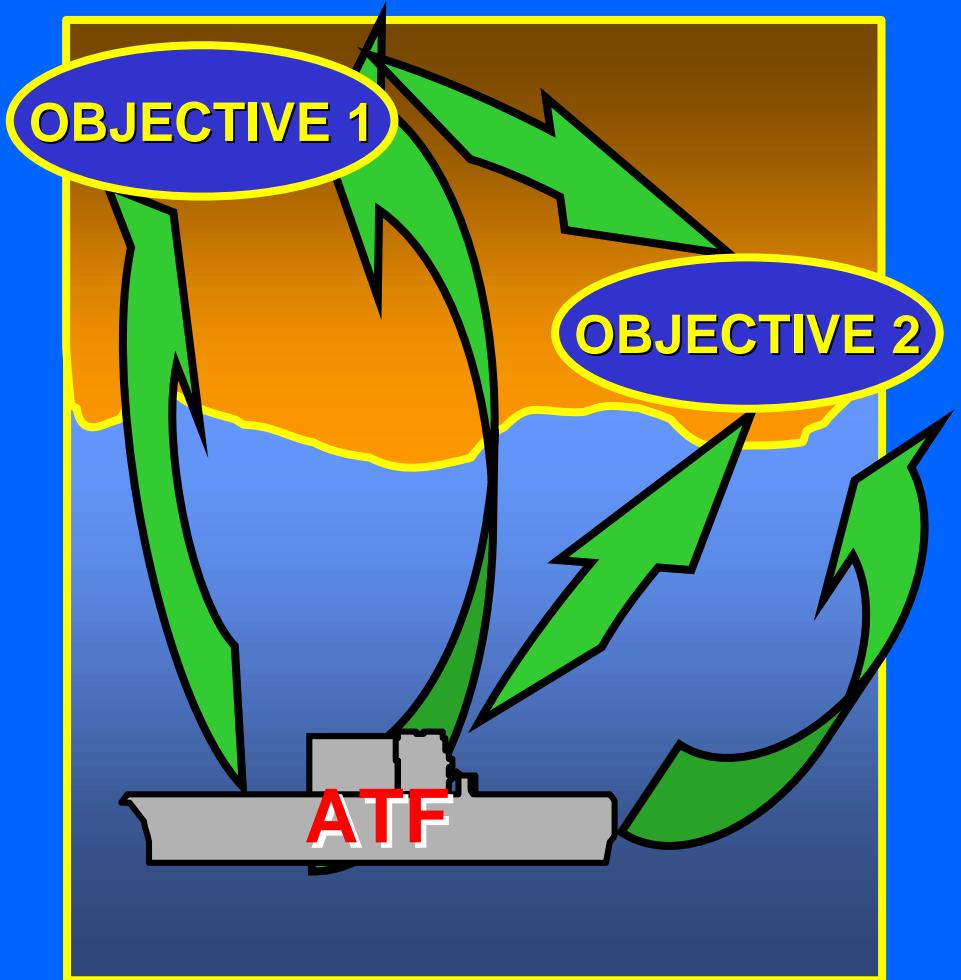


THE WAY WE ARE... THE WAY WE NEED TO BE (STOM)

CURRENT



FUTURE (STOM)





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Issues for the QDR

Defense is less than 3% of GDP

Is that adequate to maintain superpower status?

- Implementation of EMW and OMFTS
- Dynamic Commitment
 - DEPTEMPO
- Force Structure
- Future systems
 - JSF; AAAV; MPF(F); LHA(R)
- Value of engagement / forward presence



Implementation of EMW & OMFTS

Mission Area Analyses (MAA)

Summary of Scenarios

Scenario #s 1 - 7
are developed

Scenarios	MAGTF Size	Concept	Means of Deployment
#1 NEO	MEU	OEO	ARG
#2 MTW Amphib	MEF	OMFTS	ATF
#3 MTW Ashore	MEF	SOA	MPF
#4 MOOTW SLOC	MEF (Fwd)	OMFTS	MPF/ATF
#5 MTW-CSS	MEF (Fwd)	SOA/OMFTS	MPF
#6 OMFTS 2015	MEF	OMFTS	ATF
#7 OMFTS Operational Reach	MEF	OMFTS	ATF
#8 Scalability of MAGTFs	MEU-->MEF	Responsiveness	ARG, MPF, ATF
#9 Small scale contingency	TBD		
#10 TBD	TBD		



Current MAA Modeling & Simulation Tool Suite

VIC

- ARMY's Primary Analytic Model (Corps/Div)
- Has extensive C4ISR & ground combat capabilities
- Amphibious module in development

GCAM

- NAVY's Primary Analytic Model
- Flexible tool capable of integrating results from other models

EXTEND

- Commercial , graphical block-based simulation
- Developed in-house flight- and well-deck operation model
- Potential use of ONR-sponsored TLoaDS
 - A tactical supply distribution simulation



Dynamic Commitment MCFADS

Microsoft Access

File Edit View Insert Format Records Tools Window Help

Build MAGTF

I MEF CE PENDLETON : HHQ

1ST MAR DIV

VIEW T/O VIEW T/E

INF REGTS OF 1ST MAR DIV DIVISION RECON BATTALION 1ST TANK BN 3RD LAR BN

11TH MAR ARTY REGT HOBIN 1ST MAR DIV 1ST CEB 3RD ASLT AMPH BN

DIV HQ HOBIN 1ST MAR DIV 1ST LAR BN

RETURN TO HHQ SELECT CURRENT UNIT Unit Selected? EXIT BUILD MAGTF

SELECT UNITS ABOVE TO MAN THIS MAGTF (This is Subform Build MAGTF and is a view of the tempInput_MAGTF Table)

MAGTF NAME	LOCATION	START DATE	END DATE
UDP WEST 5TH 1-00 MAGTF	OKINAWA	5/16/00	11/15/00

MCFADS5m... Form View



DEPTEMPO

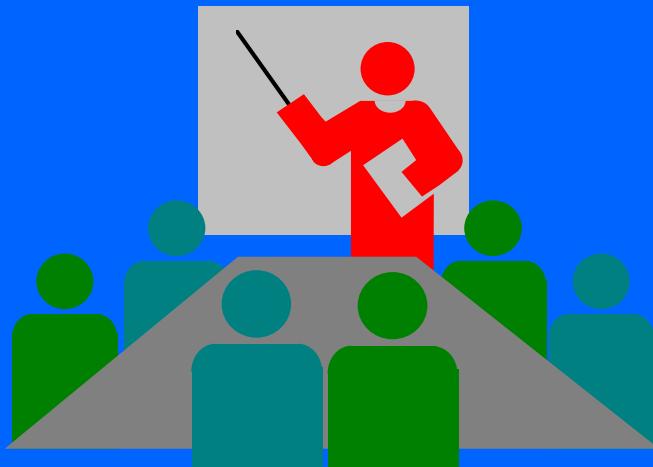
**Building detailed deployment database
1989 - present**

- Windows, Access-based
- Tracks all routine and contingency operations
- Includes
 - Time periods, units/dets, characterization of operation, numbers of people and major equipment, deployment means



Force Structure

- Sizing the Corps



Dynamic Commitment



Stochastic simulation

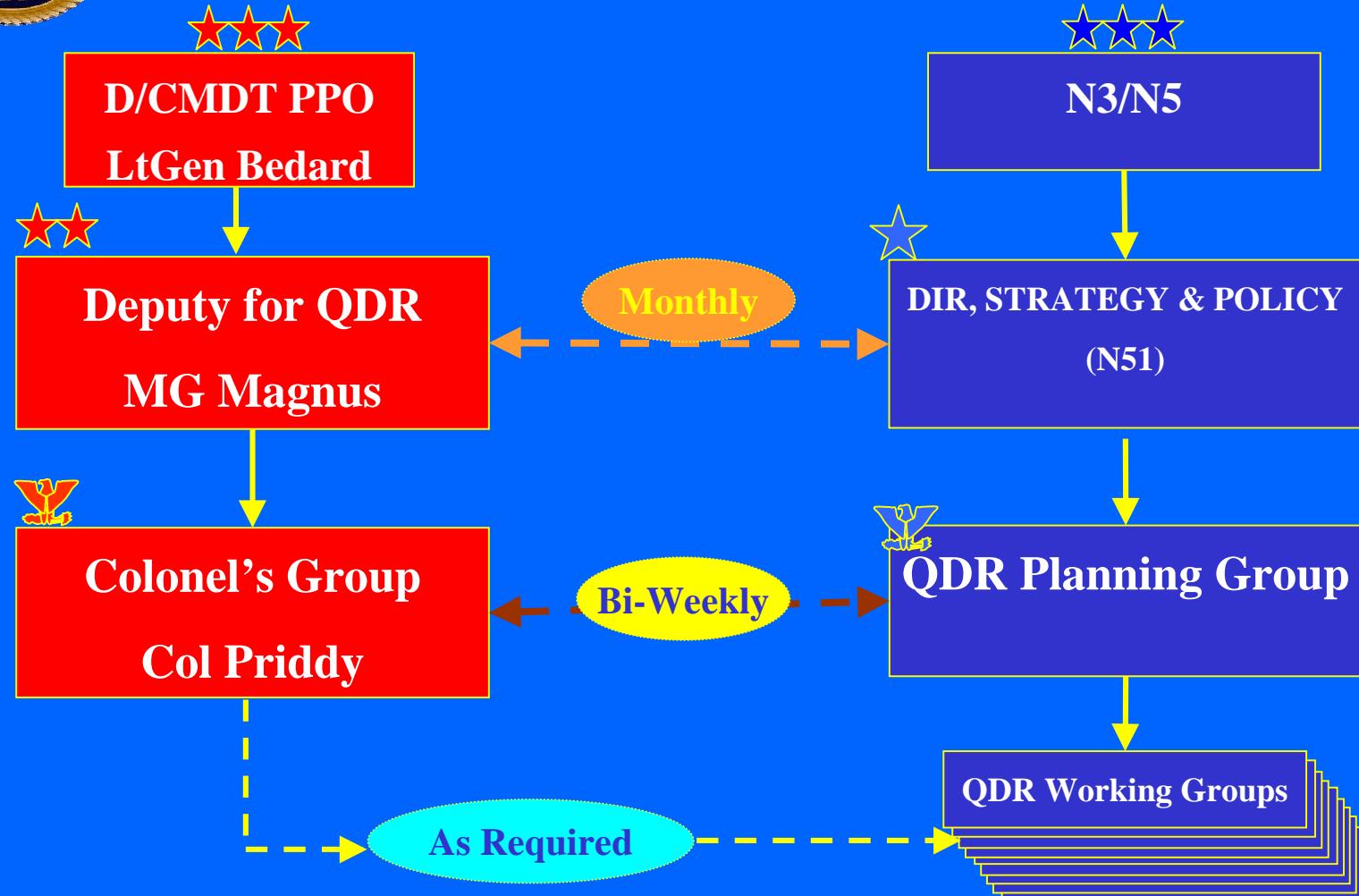


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Marine - Navy Coordination

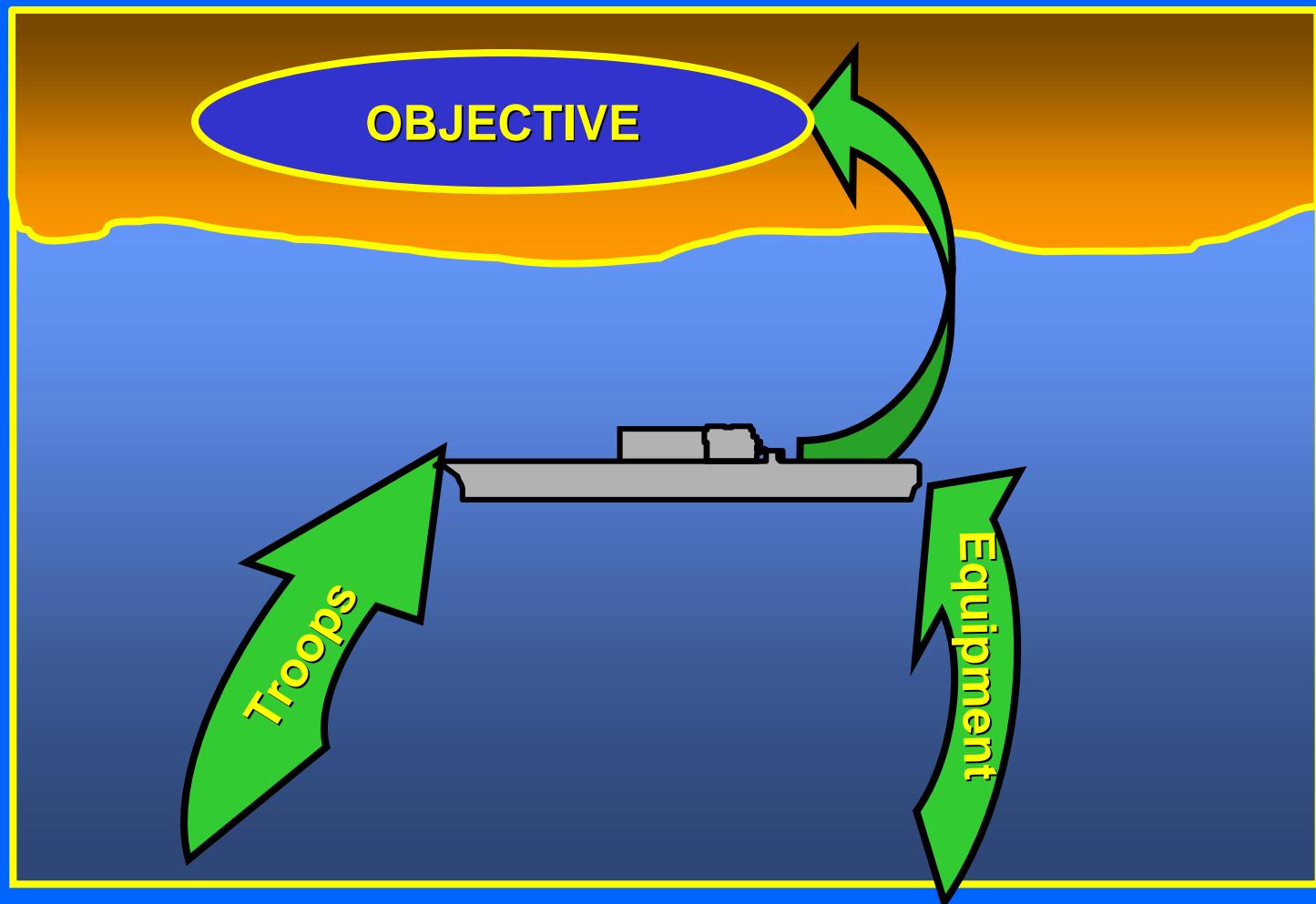




BACKUPS



OMFTS





SHIP TO OBJECTIVE MANEUVER (STOM)

- Dilute the enemy by enlarging the battlespace
- Create combined arms maneuver
- Control tempo / overwhelm adversary
- Control vital area by fighting outside it
- Maneuver to cause an exploitable reaction



TENETS OF SEABASED LOGISTICS

- Primacy of the Sea Base
- Reduced Demand
- In-stride Sustainment
- Adaptive Response and Joint Operations
- Force Closure and Reconstitution at Sea



SEABASED LOGISTICS: FUTURE CAPABILITIES

Essential Future Operational capabilities of Seabased Logistics:

- Ship to Objective Logistics
- Selective Offload
- Strategic Logistics Interface
- Seabased Intermediate Maintenance
- Joint Interoperability

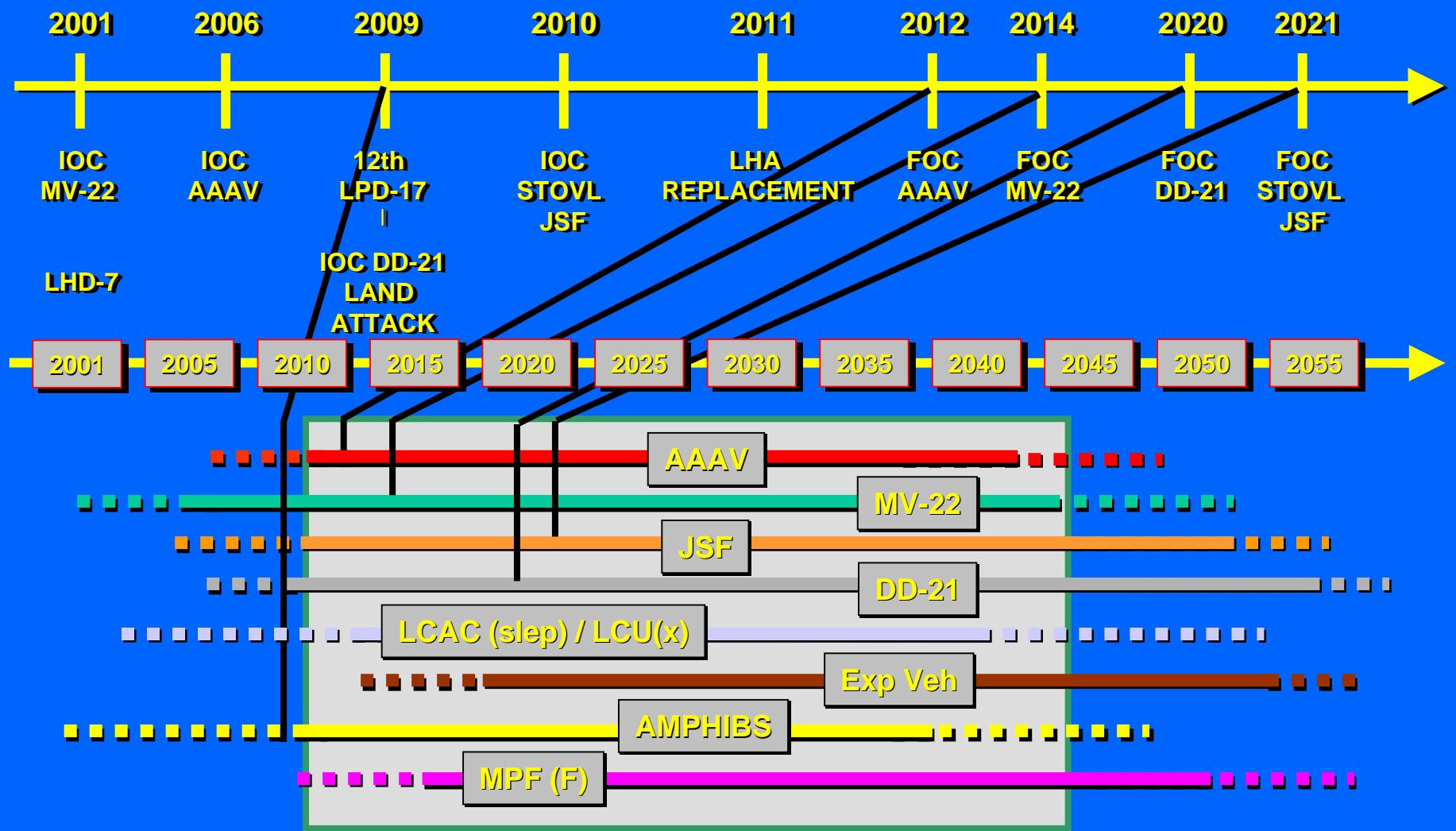


MPF (F) SYSTEM DESCRIPTION

- Replaces current MPF (including MPF(E))
- Strategic prepositioning to support tactical employment of a MEB - MOOTW to forcible entry
- Removes reliance on in-theater ports & airfields
- Provides Assault Echelon Reinforcement & Sustainment (AERS) capabilities



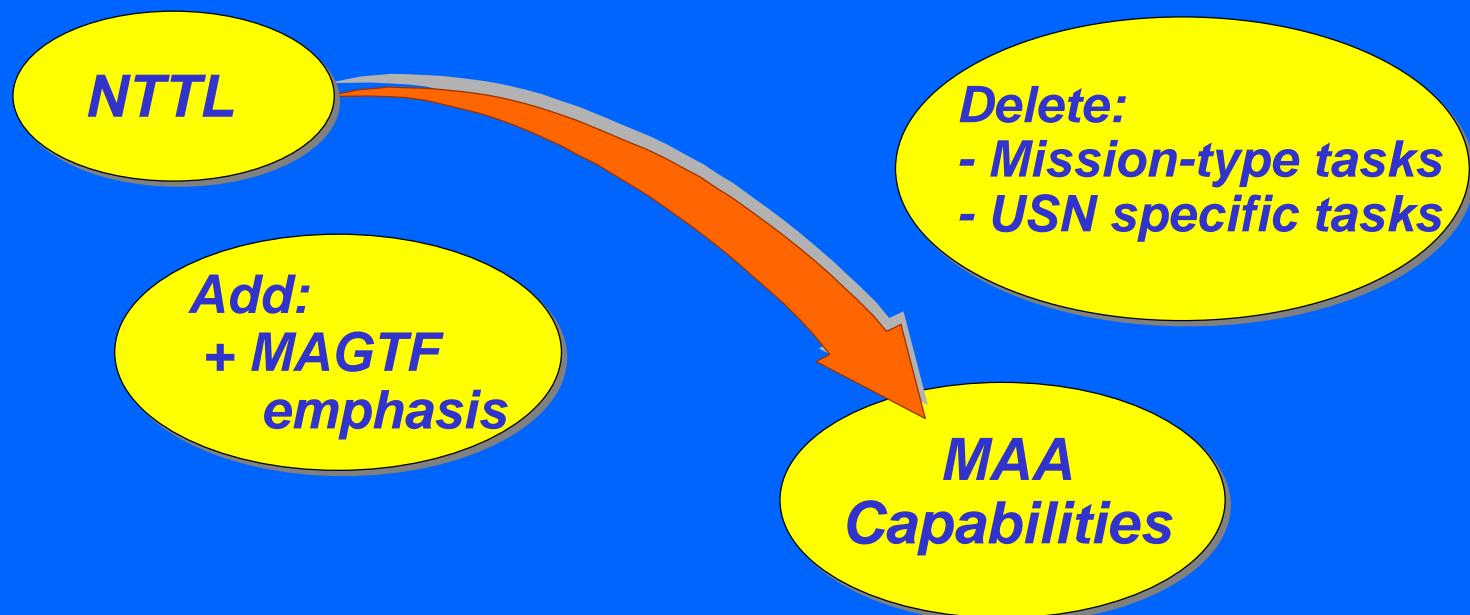
OPERATIONAL CAPABILITIES





MAA Capabilities

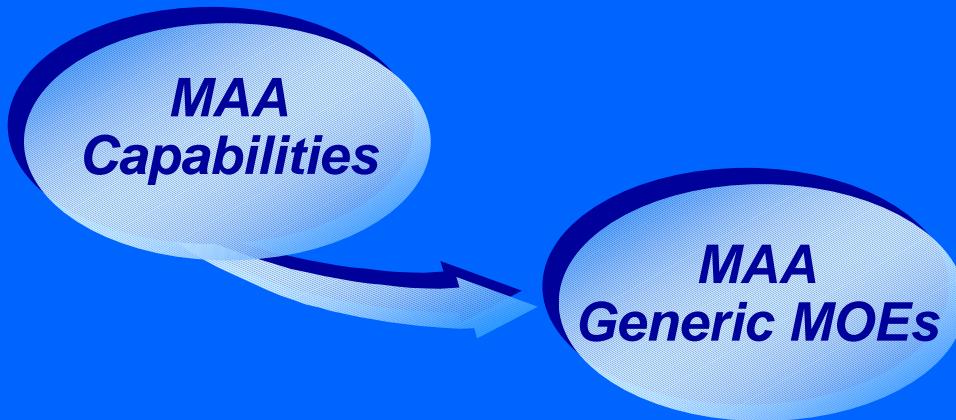
*Naval Tactical Task List
(Task Lists = Capabilities + Missions)*



*“Scaleable Hierarchy”
of Capabilities, Tasks
& Sub Tasks*



MOE Development



- *Derived 88 generic MOEs which broadly cover the gamut of capabilities*
- *Defined what we would like to measure*

**Capabilities, MOEs & Scenarios . . .
. . . provide analytically sound framework**



Examples of Current MOEs

Firepower

- *Blue systems destroyed*
- *Red systems destroyed*

Intelligence

- *Target detections*

Logistics/CSS

- *Amount of supply class delivered*

Maneuver

- *Time to seize key objectives*
- *Time to detect, breach, clear, or avoid obstacles*

Protect the Force

- *Number of units undetected by enemy*

Command and Control

- *Sensor-to-Shooter time delays*

*Living List,
expanded as
required to
support your
programs/issues*



MAA Functional Areas

1. *Deploy/Conduct Maneuver*
2. *Develop Intelligence*
3. *Employ Firepower*
4. *Perform Logistics & CSS*
5. *Exercise C²*
6. *Protect the Force*



*Broad Categories
of
Capabilities*



Implementation of OMFTS

Mission Area Analyses

All performed by Studies & Analysis Division, MCCDC

MAAs are used to identify deficiencies that may result in a need to:

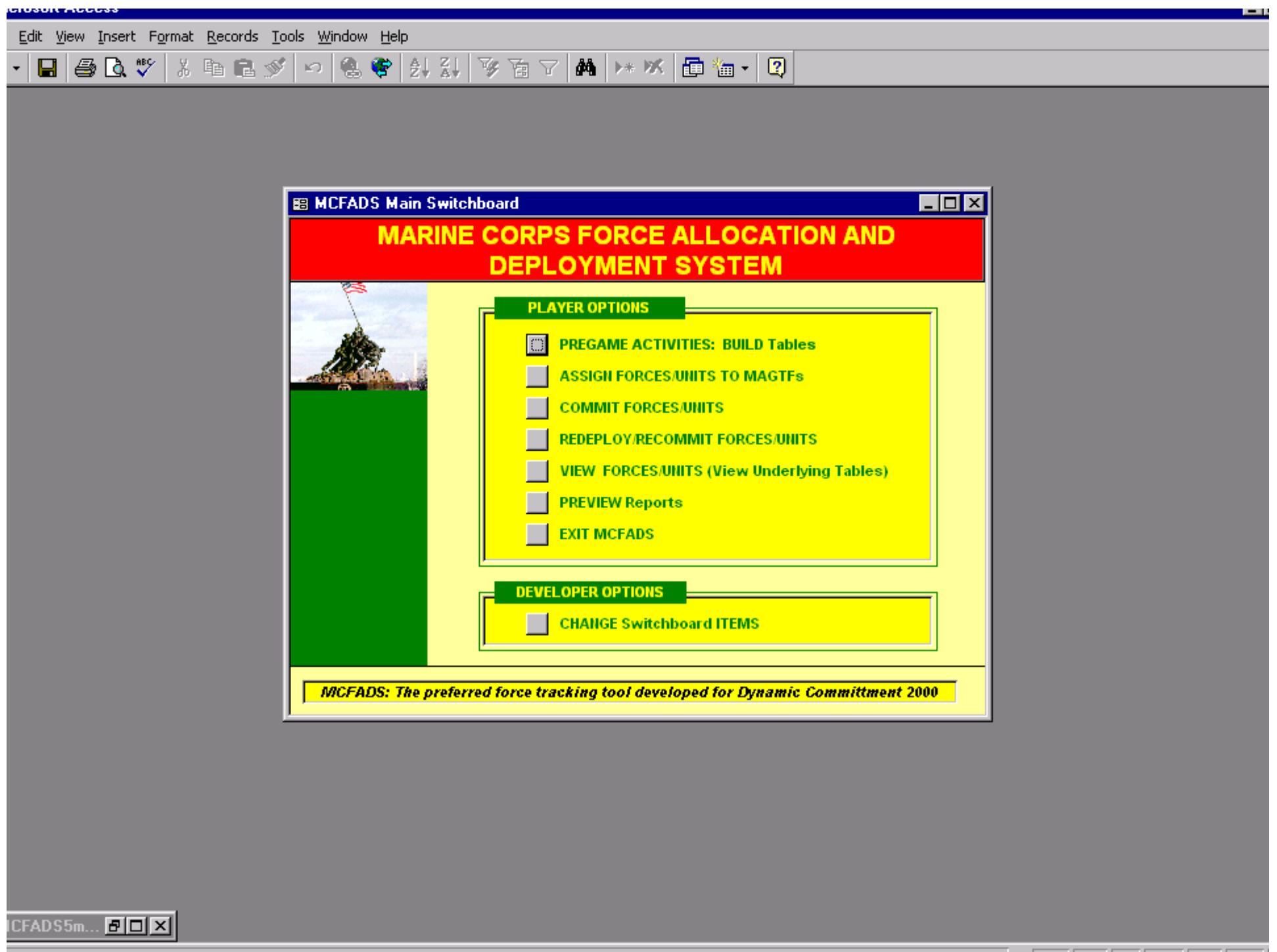
- *Change doctrine, tactics, training organization;*
- *fix shortcomings in existing material;*
- *Introduce new operational capabilities*

**ONLY USMC Org
doing combat
modeling analysis**



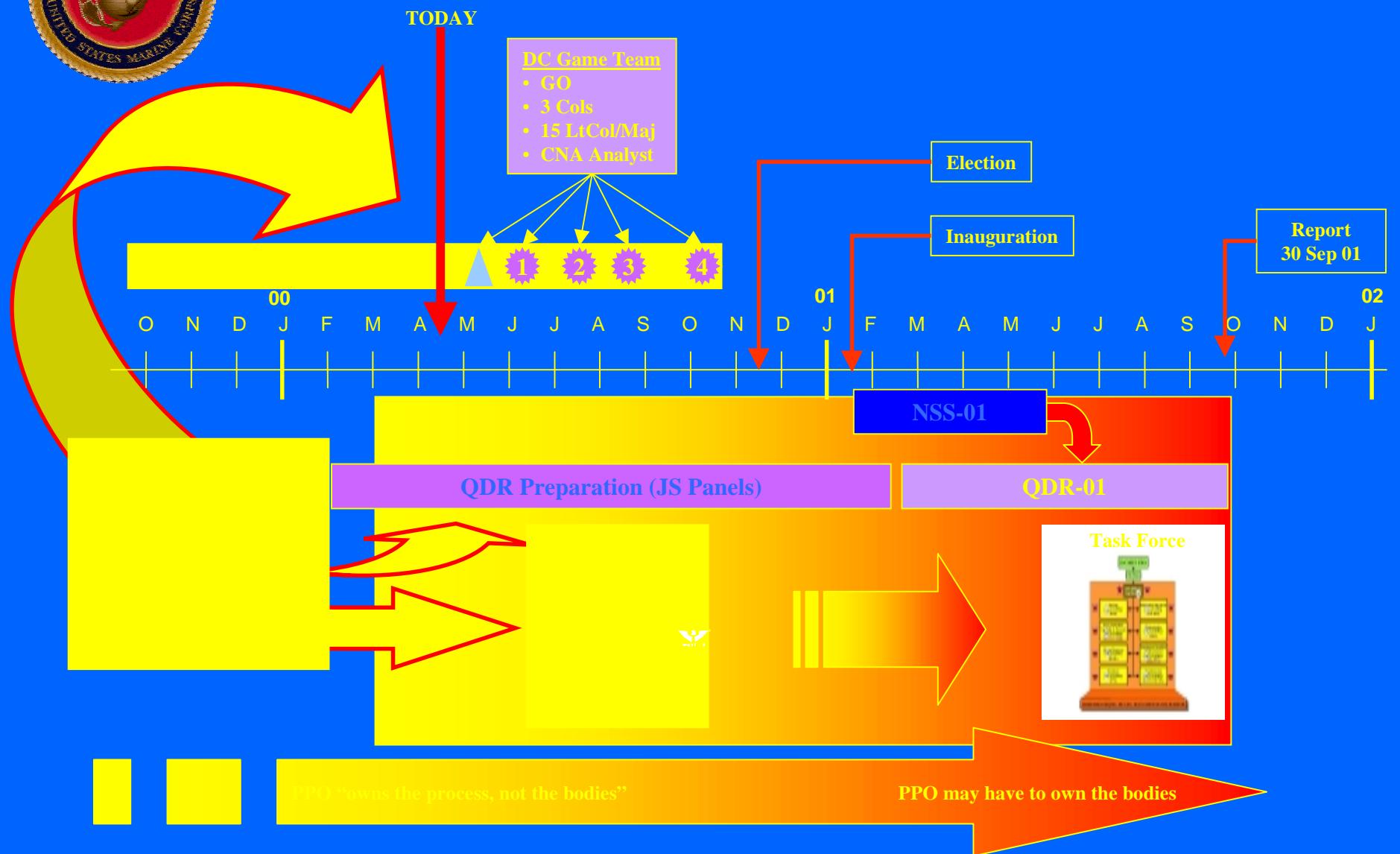
Issues to Focus Analysis

- Impact of distance on the ability to deliver an OMFTS force ashore
 - Limits of reach to deliver a force
 - Operational impacts
- Impact of distance on seabased logistics
 - Adequacy of air resupply
 - Adequacy of air resupply with loss in carrying capacity
- Impact of distance on fires
 - Adequacy of NSFS
 - Conventional munitions
 - Advanced munitions
 - Adequacy of artillery
 - Adequacy of close air support





QDR-01 Transition





MC Organization for DC-00 & QDR-01

